1438 bytes (270Mbps), 1918 bytes (360Mbps)   2 bytes

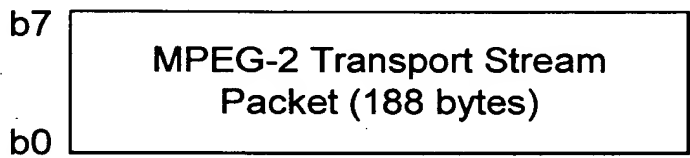| TYPE	DATA BLOCK	CRC

b9 ... b0

Fig. 1 : Format of the SDTI-TS Fixed Block
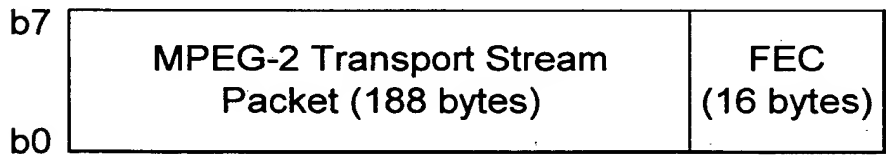
b7

MPEG-2 Transport Stream Packet (188 bytes)

b0

Fig. 2a : MPEG-2 Transport Stream Packet

b7

MPEG-2 Transport Stream Packet (188 bytes)	FEC (16 bytes)

b0

Fig. 2b : MPEG-2 Transport Stream Packet with Active 16 bytes FEC

b7

MPEG-2 Transport Stream Packet (188 bytes)	Zero (16 bytes)

b0
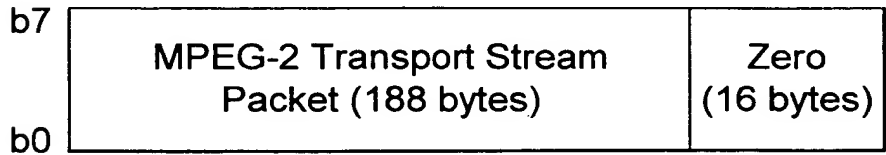
Fig. 2c : MPEG-2 Transport Stream Packet with Null FEC Space

SDTI Payload Area (1440/1920 words)

TYPE

SLOT COUNT

CHANNEL HANDLE

CONTINUITY COUNT

SDTI CRC

UNUSED SPACE

TS SLOT 0

TS SLOT 1

TS SLOT n-1

216 bytes

216 bytes

216 bytes

2 bytes

1 byte each   2 bytes each

HEADER

2.25MHz COUNT

SUB COUNT

UNUSED SPACE

188 Bytes TS Packet

16 Bytes MPEG-2 TS FEC

6 Byte R-S FEC

204 bytes

6 bytes

2 bytes

4 bytes

TS Slot Header

b7	b6	b5	b4	b3	b2	b1	b0

TS slot FEC valid

Reserved, but not defined

Discontinuity Flag

Packet Type
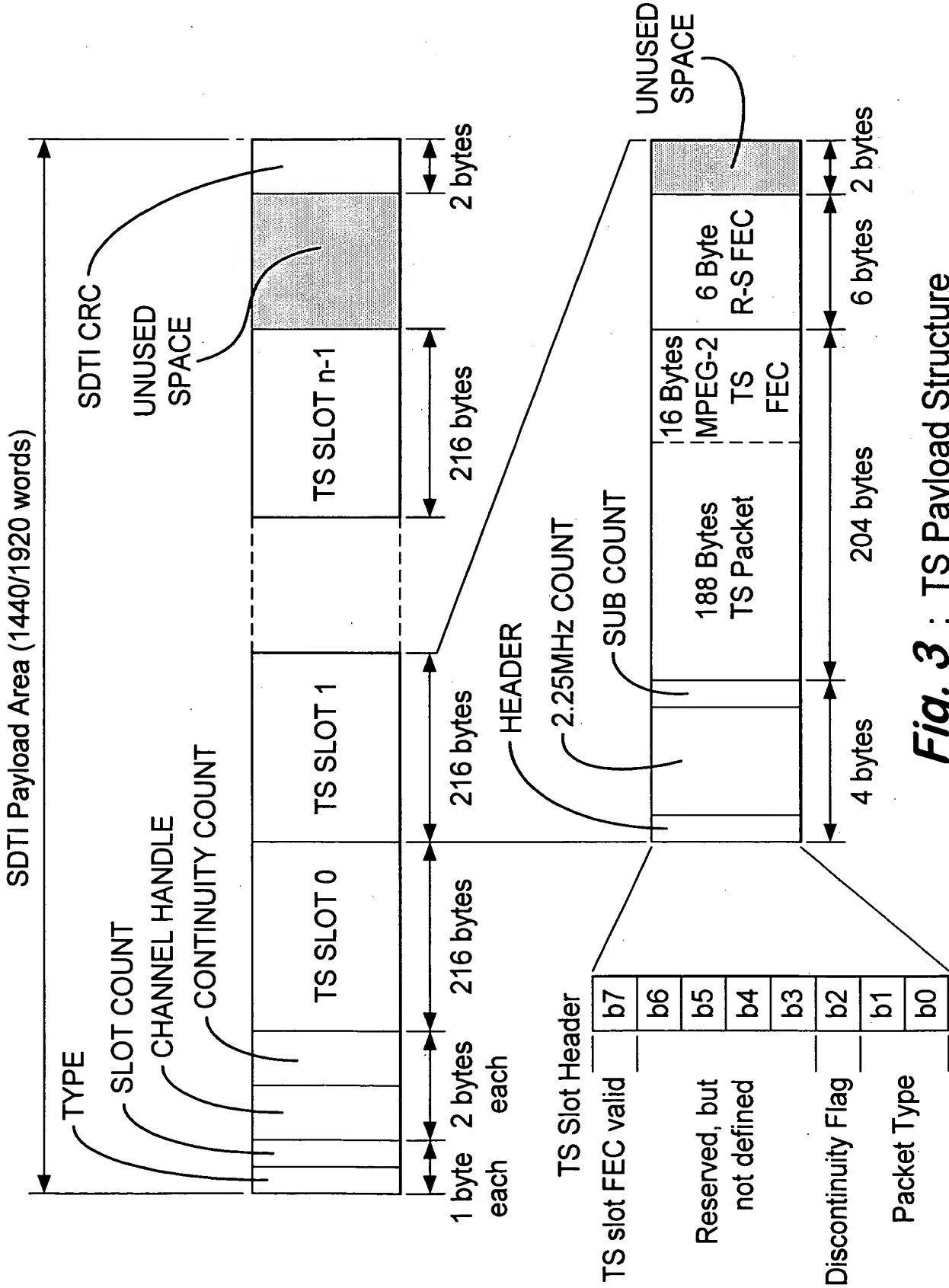
Fig. 3 : TS Payload Structure

Slot Count		Channel Handle		Continuity Count	
b7	S7	H7	H15	C7	C15
	S6	H6	H14	C6	C14
	S5	H5	H13	C5	C13
	S4	H4	H12	C4	C12
	S3	H3	H11	C3	C11
	S2	H2	H10	C2	C10
	S1	H1	H9	C1	C9
b0	S0	H0	H8	C0	C8
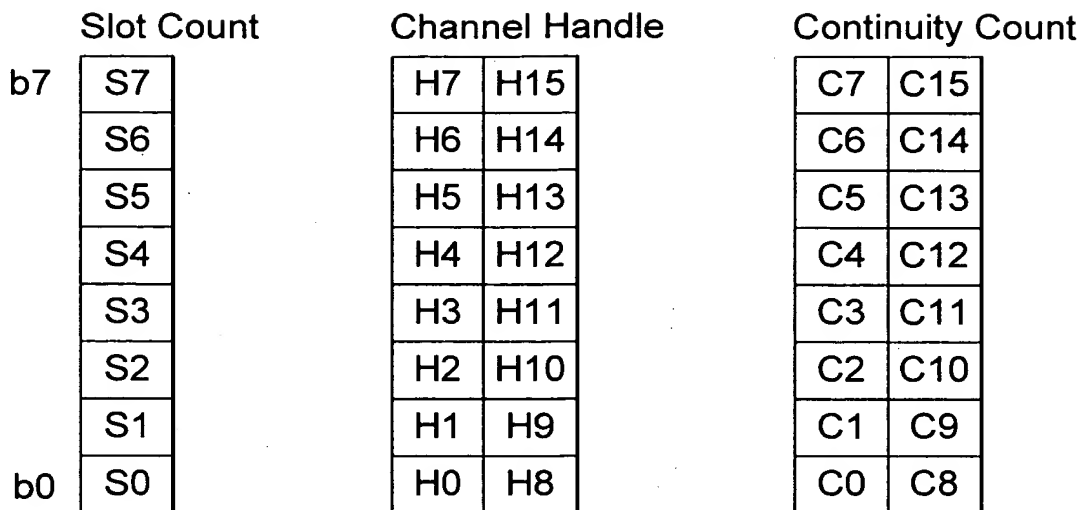
Fig. 4 : Payload Header Structure

TS Packet Input

P P+x P+2x P+3x P+4x P+5x

PCR Count Values

SDTI-TS Line

TS Slot Count Values: S, S+x, S+2x, S+3x, S+4x, S+5x, S+6x.

S
S+x
S+2x
S+3x
S+4x
S+5x

P P+x P+2x P+3x P+4x P+5x

TS Packet Output
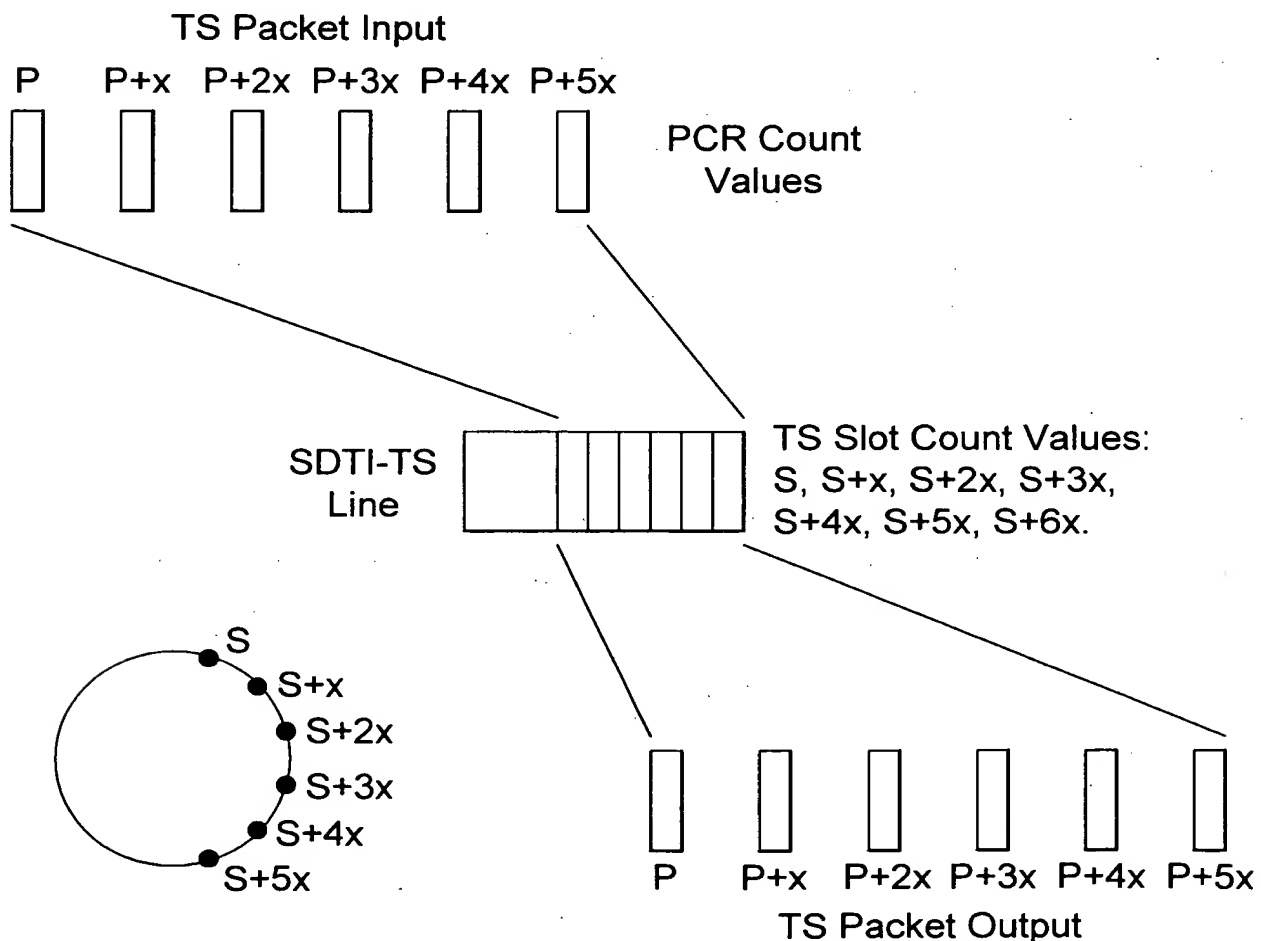
Fig. 5 : SDTI-TS Timing Reconstruction

Fig. 6

MPEG 2 DECODER — 10

TIMING CORRECT — 8

11

13

15

SDTI — 6

INSERT TIMING DATA — 1

MPEG 2 ENCODER — 2

3

4

5

Fig. 8

27MHz — 80

MODULO 12 — FINE COUNT

MODULO 65536 — COARSE COUNT — 82

Fig. 9

27MHz

MODULO 12 — FINE COUNT — 921

PRELOAD PRELOAD

MODULO 65536 — COARSE COUNT — 941

PRELOAD

Fig. 7

Separator   Type   Word Count   Data Block   End Code

b7

b0
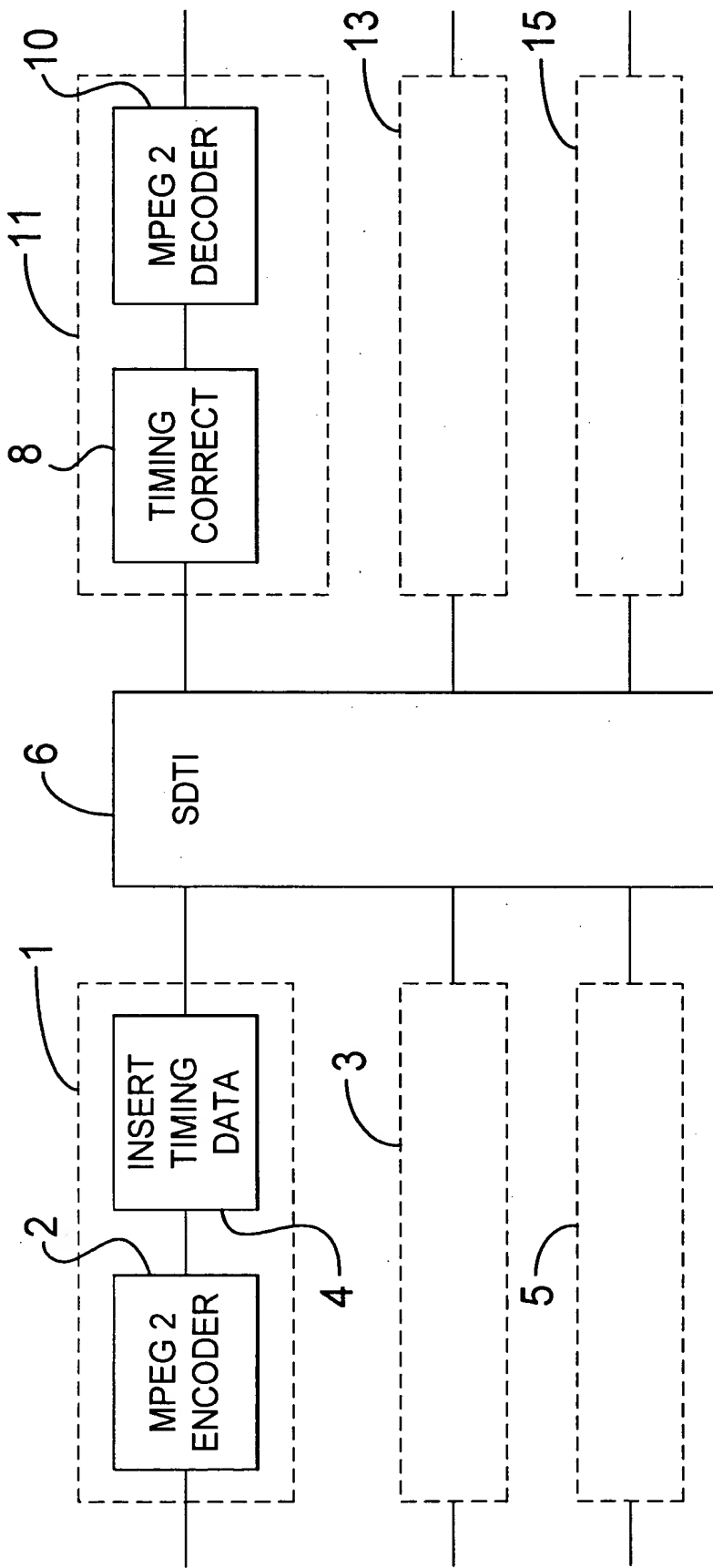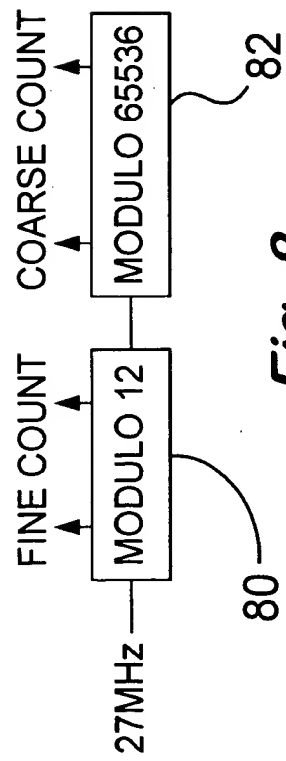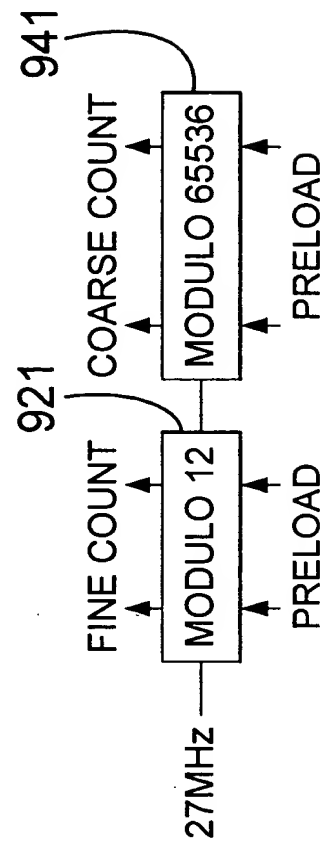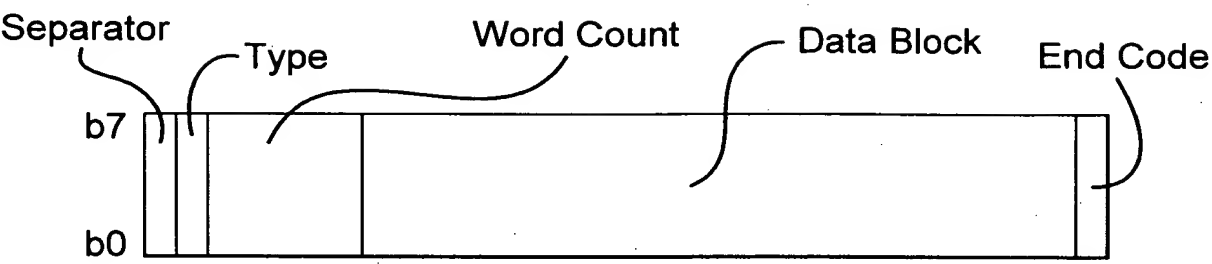
Fig. 10 : Format of the SDTI Variable Block

Type   Length   Data

Fig. 11 : TLD Block

SDTI Data Block

Separator   Type   Word Count   TLD Block 1   TLD Block 2   TLD Block 3   TLD Block 4
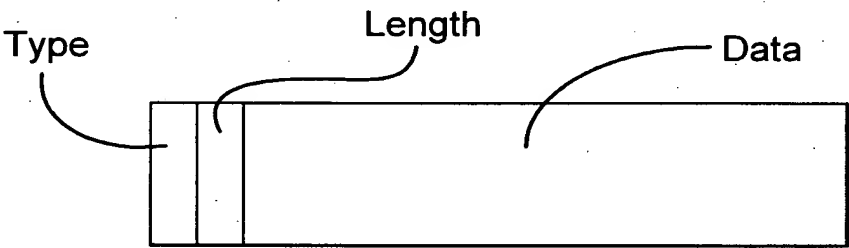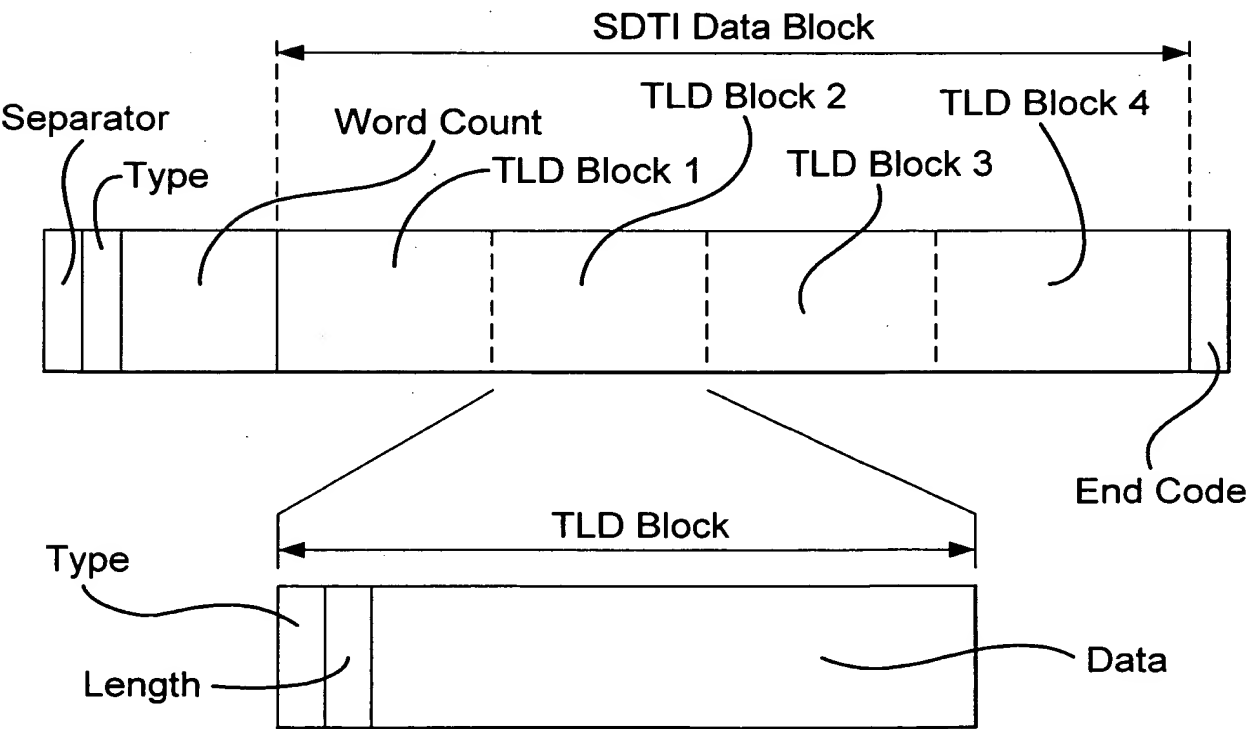
End Code

TLD Block

Type

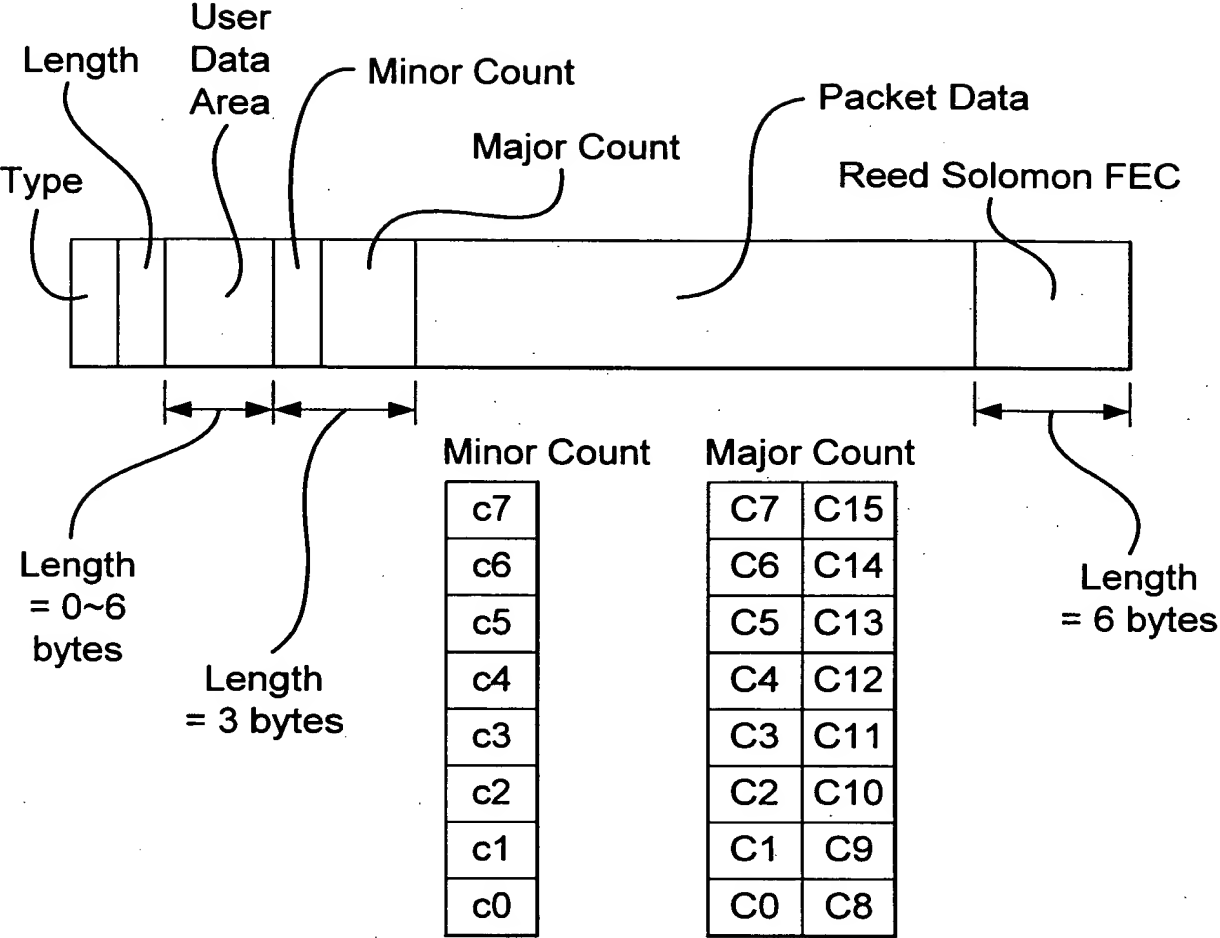Length   Data

Fig. 12 : Hierarchy of SDTI Variable Blocks
and TLD Blocks

Fig. 13 : TLD Compound Packet With All Components